

## ABSTRACT

[0034] An apparatus includes a memory to store compressed color data and decompressed color data. In addition, the apparatus includes a decompressor arranged to receive the compressed color data from the memory and configured to generate the decompressed color data and store the decompressed color data in the memory. Furthermore, the apparatus includes a color space converter arranged to receive the decompressed color data from the memory and configured to perform a color space conversion on the decompressed color data to form converted color space data. Additionally, the apparatus includes a halftoning device arranged to receive the converted color space data and configured to perform a halftoning operation to generate halftone data. A method includes storing compressed color data in a memory and loading the compressed color data into a decompressor from the memory. In addition, the method includes generating decompressed color data from the compressed color data, storing the decompressed color data in the memory, and loading the decompressed color data into a color space converter from the memory. Furthermore, the method includes performing a color space conversion on the decompressed color data to generate converted color space data.